

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently Amended) A control circuit for controlling the operation of a piezo ceramic actuator comprising means for applying a voltage to the piezo ceramic actuator, the voltage applying means being arranged such that a charge is applied to the piezo ceramic device (10) which in turn produces a displacement of the piezo ceramic device, characterised in that the voltage applying means is arranged to apply a reverse bias voltage to the actuator.
- 1 2. (Original) The control circuit according to claim 1, further comprising means for generating a control signal indicative of the temperature of the actuator and means for altering the amount of reverse bias voltage as a function of the control signal.
- 1 3. (Currently Amended) The control circuit according to ~~claim 1 or 2~~, wherein the means for applying a voltage includes an H-bridge.
- 1 4. (Original) The control circuit according to claim 3, wherein the H-bridge is provided with a plurality of switches arranged to charge and discharge the piezo ceramic device.
- 1 5. (Original) The control circuit according to claim 4, wherein the plurality of switches are transistor switches.
- 1 6. (Currently Amended) The control circuit according to ~~claims 3, 4 or 5 claim 3~~, wherein the H-bridge is configured to apply the reverse bias voltage to the actuator.

- 1 7. (Currently Amended) A piezo ceramic actuator arrangement according to
2 claim 1, comprising a piezo ceramic actuator and a control circuit
3 ~~according to any one of the preceding claims.~~
- 1 8. (New) The control circuit according to claim 2, wherein the means for
2 applying a voltage includes an H-bridge.
- 1 9. (New) The control circuit according to claim 8, wherein the H-bridge is
2 provided with a plurality of switches arranged to charge and discharge the
3 piezo ceramic device.
- 1 10. (New) The control circuit according to claim 9, wherein the plurality of
2 switches are transistor switches.
- 1 11. (New) The control circuit according to claim 8, wherein the H-bridge is
2 configured to apply the reverse bias voltage to the actuator.
- 1 12. (New) The control circuit according to claim 4, wherein the H-bridge is
2 configured to apply the reverse bias voltage to the actuator.
- 1 13. (New) The control circuit according to claim 9, wherein the H-bridge is
2 configured to apply the reverse bias voltage to the actuator.
- 1 14. (New) The control circuit according to claim 5, wherein the H-bridge is
2 configured to apply the reverse bias voltage to the actuator.
- 1 15. (New) The control circuit according to claim 10, wherein the H-bridge is
2 configured to apply the reverse bias voltage to the actuator.